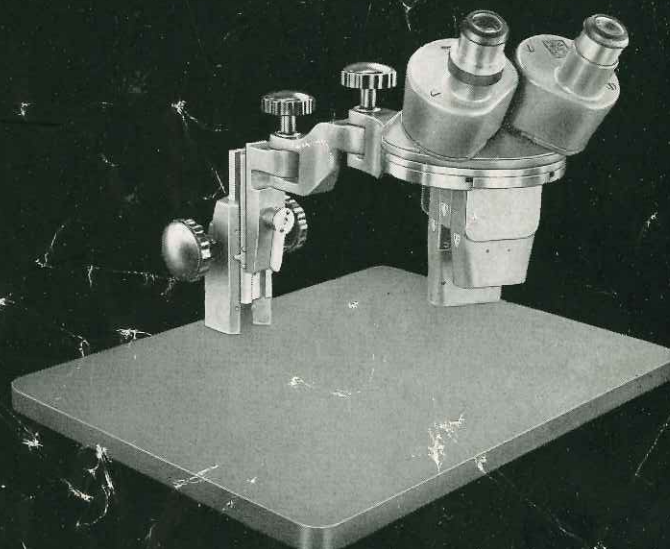


CATALOG D-15

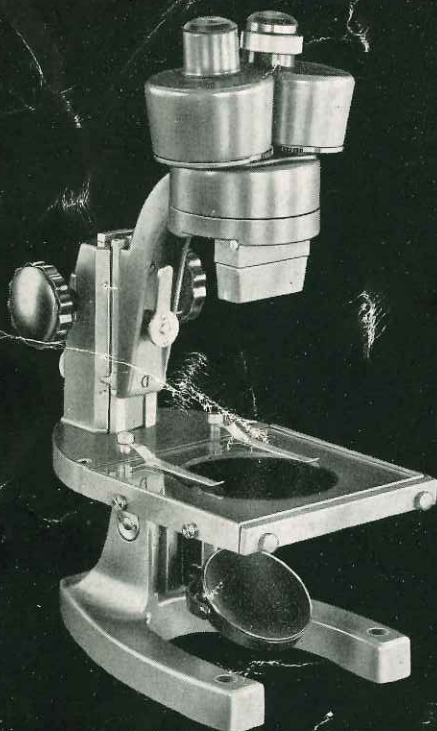
U.S. PATENT OFFICE

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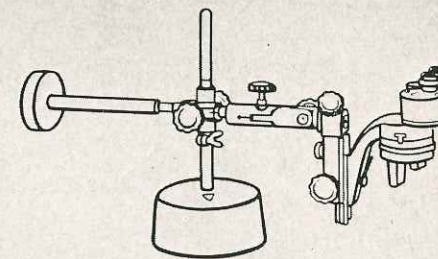
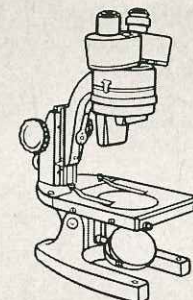
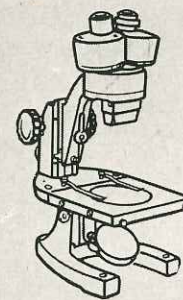
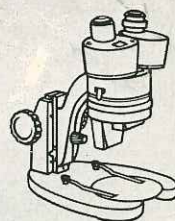
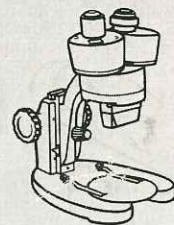
DIVISION 7



**BAUSCH & LOMB
STEREOSCOPIC
WIDE FIELD
MICROSCOPES**



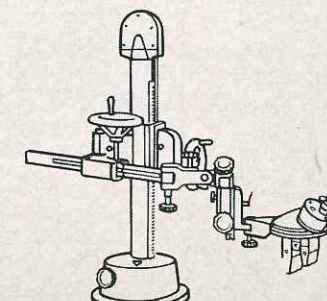
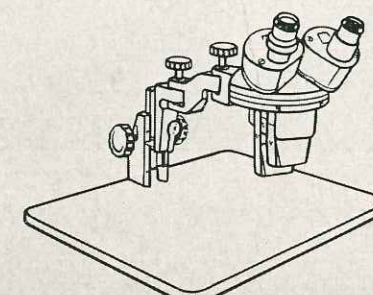
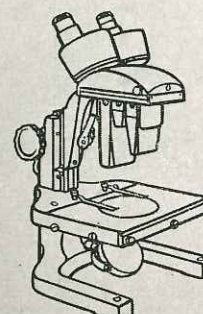
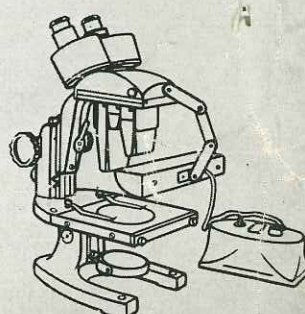
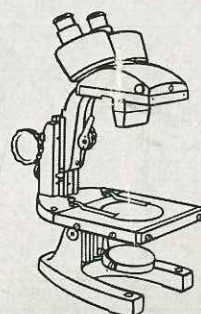
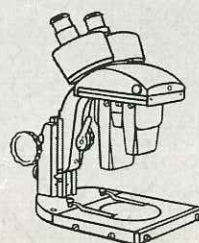
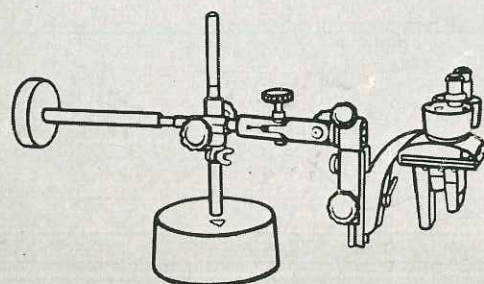
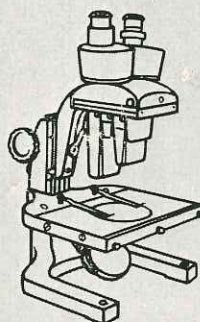
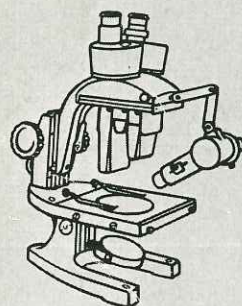
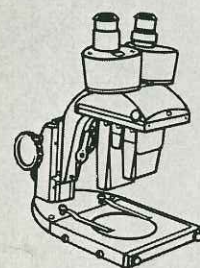
BAUSCH & LOMB STEREOSCOPIC WIDE FIELD MICROSCOPES



15 POINTS OF SUPERIORITY

- DUST-PROOF SEAL IN PRISM HOUSINGS
- DUST-PROOF NOSEPIECES
- EXTRA WIDE FOCUSING RACK FOR LONG LIFE
- AMAZINGLY TRUE STEREOSCOPIC IMAGES
- FLATTER FIELDS TO THE EDGES
- LONGER EFFECTIVE EYE-RELIEF
- OBJECTIVES INTERCHANGEABLE BETWEEN STANDS
- METAL RIM PROTECTING FRONT EDGE OF GLASS STAGE
- SMOOTH GRAY ENAMELED SURFACES
- DOUBLE EXTENSION DOVE-TAIL SLIDE
- MOST COMFORTABLE INCLINATION ANGLE OF EYEPIECES
- PRECISION GEARING FOR STABLE INTERPUPILLARY DISTANCE
- ROTATABLE MODELS SWINGING ABOUT CENTER OF FIELD OF VIEW
- SLIDING NOSEPIECE—FAST AND EFFICIENT
- PRISM ASSEMBLY SECURELY ANCHORED BY CLAMP AND GIBS

**PLUS BAUSCH & LOMB OPTICAL
ENGINEERING...UNSURPASSED**



THREE DIMENSIONAL VISION

With the Unaided Eyes

TWO eyes are always better than one. The average person is so used to seeing objects stereoscopically that he seldom gives consideration to the visual image deficiency which would result from a loss of the third dimensional feature. Stereoscopic vision is a "rangefinder" for placing the exact position of objects.

Lay a pencil on your desk with the point toward you. Now with one eye closed, attempt to touch the point of the pencil with your index finger. Generally you will not be on the target. The mechanics of stereoscopic vision are simple. Each eye sees a slightly different image. These are interpreted by the brain as one, with the additional all-important feature of depth.

This perception of depth decreases as the distance from the eye to the object is increased. On an average, stereoscopic vision is lost 1200 to 1600 yards from the unaided eyes.

With Stereoscopic Wide Field Microscopes

THREE dimensional vision is extremely valuable, also, in interpreting magnified images of objects. Many things may be satisfactorily seen only when magnified—leading to the necessity of combining magnification and stereopsis.

The stereoscopic or Greenough type microscope provides a magnified image which is both stereoscopic and unreversed. While its magnification range is more limited than that of the monobjective type, its fields are larger, and its unreversed images are more easily interpreted by the average user.

The uses of stereoscopic microscopes are almost boundless. These instruments are best known perhaps for use in biological work and for dissecting. Industry however, is rapidly finding more and more applications for these optical aids. Today, many small part assembly operations, such as bearings, watches, etc., are handled more quickly and efficiently with three-dimensional magnification.

These flexible instruments are used for the examination of many types of specimens—often being placed either on or over the object.

A HIGH-SPOT SUMMARY OF SOME OF THE USES FOR STEREOSCOPIC MICROSCOPES

EDUCATIONAL

Biology
Botany
Anatomy
Embryology
Zoology
Agronomy
Paleontology

INDUSTRIAL

Quality Control
Canned Foods
Watchmaking
Gemology
Grinding Agent
Determination
Textiles
Tool Making
Metal Working

MEDICAL

Entomology
Parasitology
Pathology
Dermatology
Diagnosis

To these general classifications can well be added hundreds of specific applications where wide field microscopes will permit better, quicker examinations and, consequently, a greatly increased volume of work.

There is a postcard on the inside back cover which will bring you expert advice on your problem.

BAUSCH & LOMB STEREOSCOPIC WIDE FIELD MICROSCOPES

"Finest in the World"

BOTH the Junior and Senior Series of Bausch & Lomb Wide Field Microscopes were designed to incorporate those features which have been demanded by users in the medical, educational, and industrial fields. Mechanically, these sturdy instruments are watch-like in their precision. Optically, their performance is of the superior quality which only Bausch & Lomb "know how" can guarantee. The heritage of ninety-five years of painstaking research in scientific optics is fully realized in these fine instruments. No finer are available—anywhere.

Dustproof Design

Dust and other foreign material cannot sift down through the eyepieces onto the prisms and into the nosepieces of these carefully designed instruments.

The prism housings are dust-tight and incorporate a patented seal which permanently protects the prism assemblies. A Neoprene ring is fixed in a slot at the lower end of each eyepiece tube and effectually closes what has heretofore been a dust catcher. This feature in no way hinders removal of the housings for prism examination. Two easily accessible screws firmly hold the cases in place, as well as permit their quick removal.

Nosepieces, both revolving and sliding, are also entirely protected from dust seepage. While they work with surprising ease, they are so well designed and precisely fitted that the optics are kept clean for highest quality performance. Objectives are designed to protect their lens surfaces, the mount being long enough to prevent touching the lenses while in use or when being changed from one nosepiece to another.

Dustproofing, from an economy standpoint, is particularly desirable—the less optical parts are handled, the less the opportunity of their becoming scratched, chipped, or broken. These B&L Stereoscopic Wide Field Microscopes are built to give a life long useful service from every part.

Highest Quality Optics

Bausch & Lomb wide field eyepieces have been designed to give comfortably long eye relief with flatter fields and absence of bothersome stray side lighting. Mechanical design of these eyepieces permits simple insertion of standard micrometer discs for measuring work.

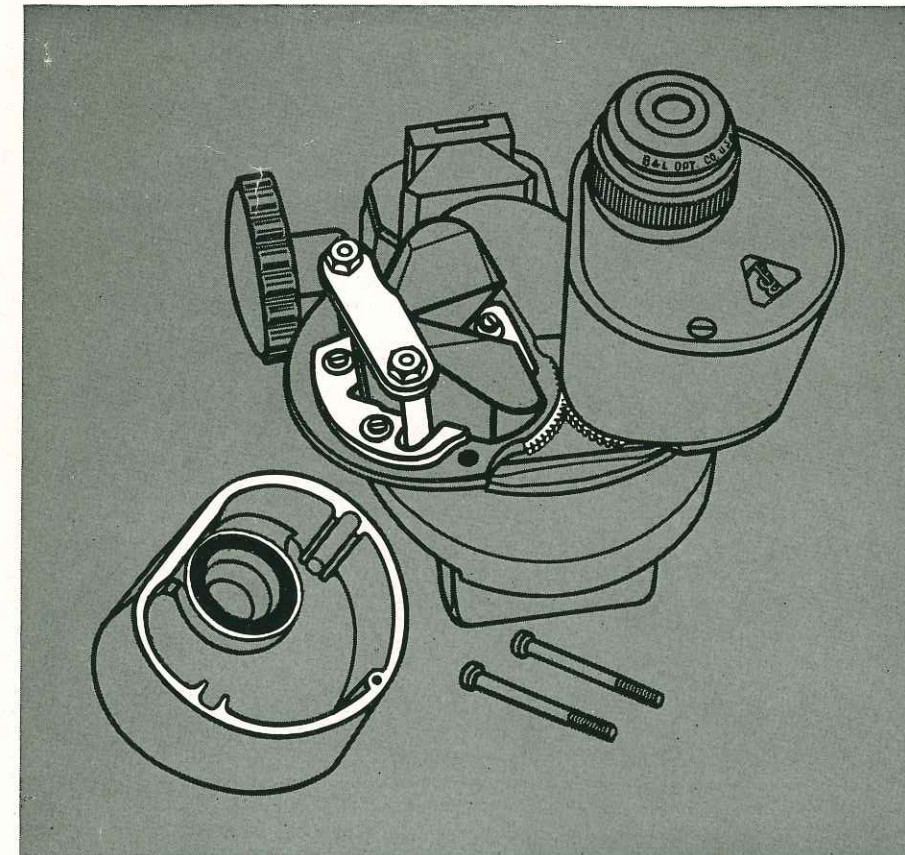
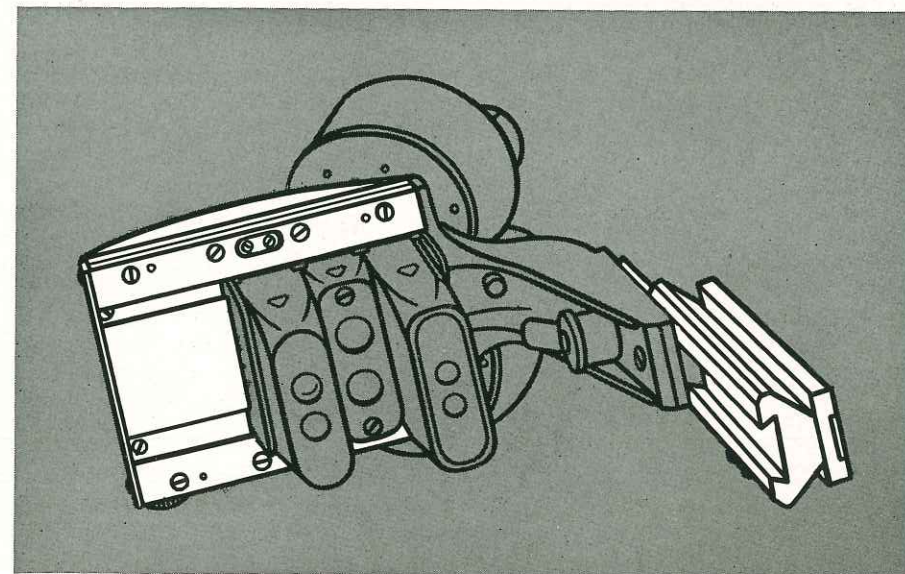
Objectives of these instruments are fully up to Bausch & Lomb highest

quality precision standards. Parfocal and interchangeable from one stand to another, these optics are the finest ever produced for wide field work. They are marked by less than the usual image deterioration at the edge of the field.

True stereopsis is realized in these advanced design optical systems. The angle between the axes of both eyepieces and objectives is 10°. There is no compromise of the stereoscopic quality. Bausch & Lomb instruments give full value in the realization of the three dimensional image.

Width of field is, of course, a prime requisite of any Greenough type microscope. In this phase of its design, no other instrument excels these B&L models. Reference to the table on page 19 will prove most illuminating, both as to the welcome field areas and

The Senior series sliding nosepiece is dustproof. Its action is quick and positive, positioning of the desired objective being effected by a click stop. When changing from one objective to another there is no bothersome kaleidoscopic effect. Below is shown the extensible double dovetail slide with extra wide rack.



Dustproof prism housings are featured by a Neoprene ring which makes contact with the top surface of the Porro prism. This patented design prevents dirt from sifting down over the prisms. In addition to the conventional clamp atop the prisms, gibs at the bottom furnish additional support and effectually maintain optically correct positioning. Large, well-fitted gears move the prism housings and eyepieces to adjust and positively maintain individual interpupillary distances.

magnifications available.

Objective magnifications have wisely been determined so that the four most commonly used, 10×, 20×, 30×, and 60×, can be obtained with either 10× or 15× eyepieces. Only the most expert can simplify optical combinations and improve quality—results achieved by Bausch & Lomb scientific engineers in these precision optics.

Stand Design

Bausch & Lomb wide field stands are packed with features which are found only on these—the finest microscopes. Too, these stands are sturdy supports for the fine optics, they have a pleasing appearance, and they will be faithful workers in any surroundings.

The prism housings are geared together so that rotation of one turns the other. The stand is always symmetrical regardless of the adjustment necessary for inter-ocular separation—and maintenance of setting is assured.

Within the dustproof prism housings, the erecting prisms are securely held in place by a clamp at the top and gibs at the bottom. Absolute maintenance of proper positioning, as adjusted by the factory experts, is assured throughout the life of the instrument.

Inclination angle of the inclined eyepieces is 30° from the vertical—the most comfortable for use on conventional height tables. An inclination joint is provided in the standard V-U base.

The Junior models have a three position extension adjustment for the arm, while the Senior models are provided with a sliding extension fitted with a flat, long-lived pressure spring. Unusually long working distance on the two types will be welcomed as appreciably increasing the range of their usefulness.

Arm design is such that there is a wealth of usable space between the center of the stage and the inside of the post. Two stage and base sizes are available in the Senior series. The standard stage is 5¼" x 8¼" overall, while the large type is 8¼" x 8¼".

The glass stage plate is protected on all sides by metal, the front strip being quickly removable should it be desirable to take out the glass for cleaning or any other reason. A combination black and white metal contrast plate is held by a spring in its groove on the stage models.

Bases are the standard V-U type or the extra wide design. In each case the bases are instantly detachable and are fitted with a combination concave mirror and diffusing disc mounted to swivel in a swinging arm.

Positive Focusing

Focusing without drift—always desired in wide field microscopes—is assured on these B&L wide fields. A patented beryllium-copper spring has a double bearing against the focusing pinion shaft. This metal is known for its resistance to fatigue and, with the easily accessible pressure adjusting screws, will be "on guard" through the long lifetime of the instrument.

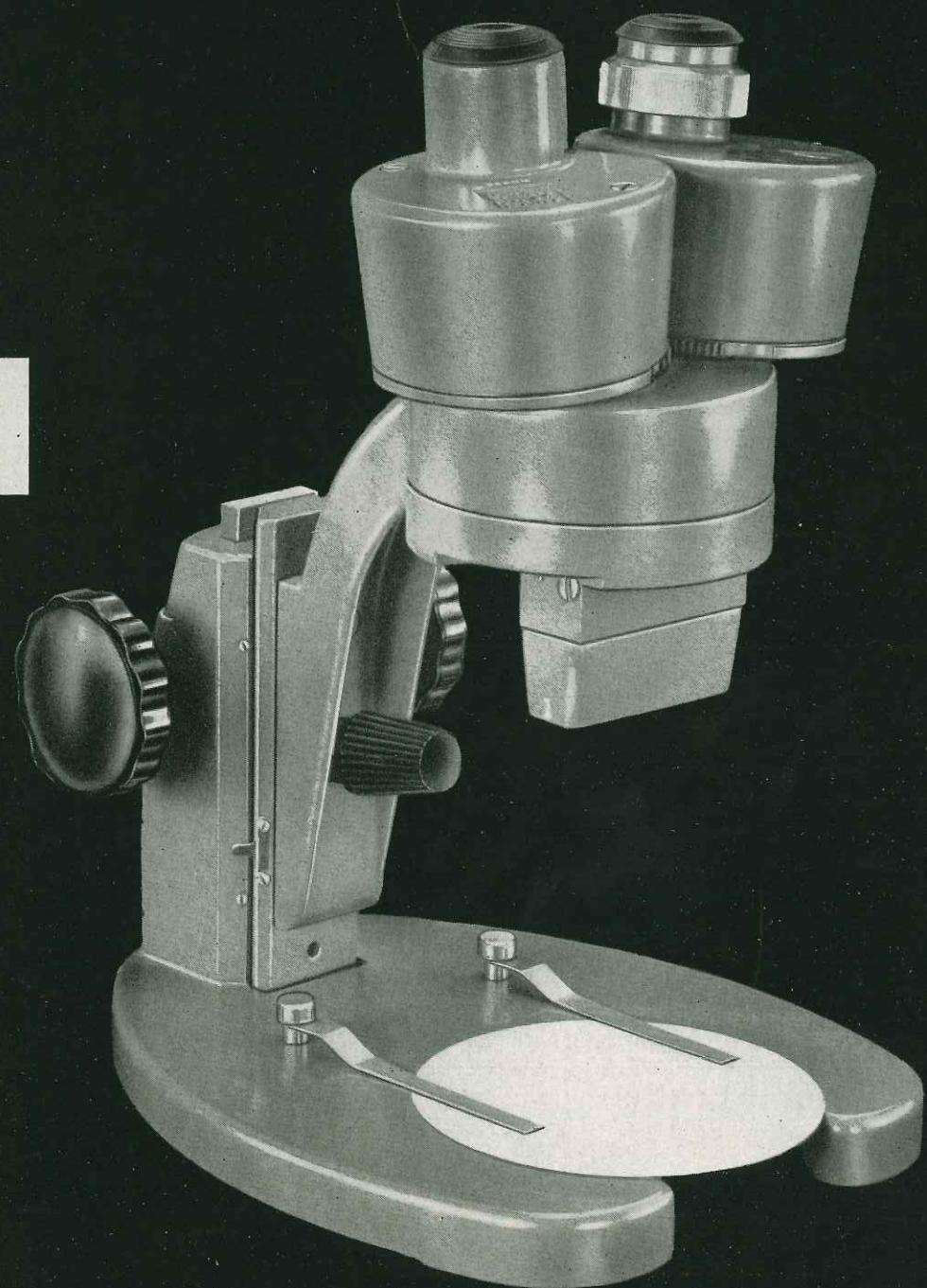
Focusing knobs are extra large for positive handling and the extra wide rack on all models gives strength with ease of manipulation. These instruments will always focus as easily and precisely as the day they leave the Bausch & Lomb precision inspection division.

The finish on each model is gray enamel, easy to keep clean and always in harmony with any environment.



JUNIOR STEREOSCOPIC

JK-1



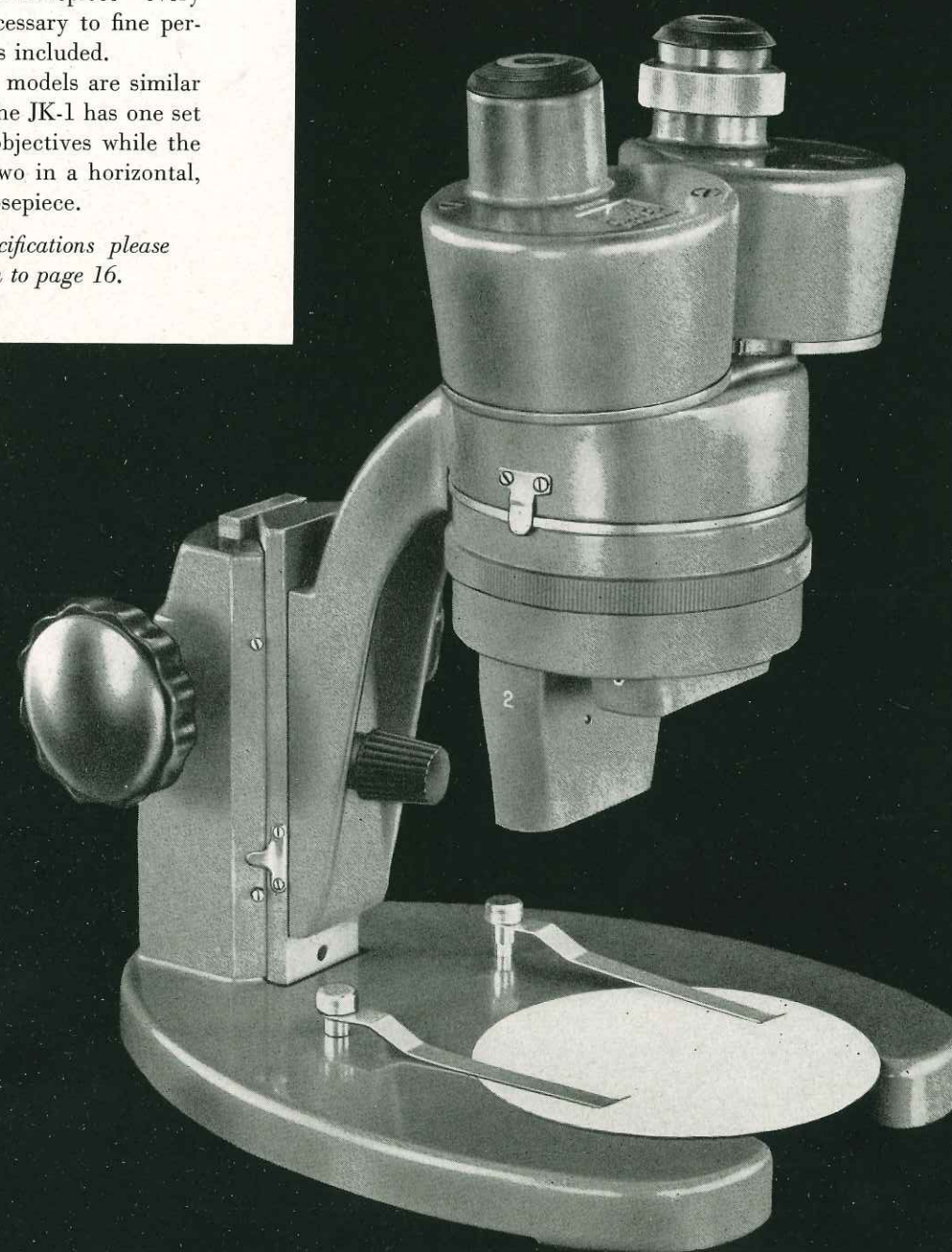
WIDE FIELD MICROSCOPES

• Engineered to assure performance comparable to that of higher priced instruments, these Junior Models conform to B&L quality standards.

A sturdy stand, extra wide rack, 3-position arm adjustment on slide; dustproof prism housings and nosepiece—every feature necessary to fine performance is included.

The two models are similar save that the JK-1 has one set of paired objectives while the JK-2 has two in a horizontal, rotating nosepiece.

For specifications please turn to page 16.

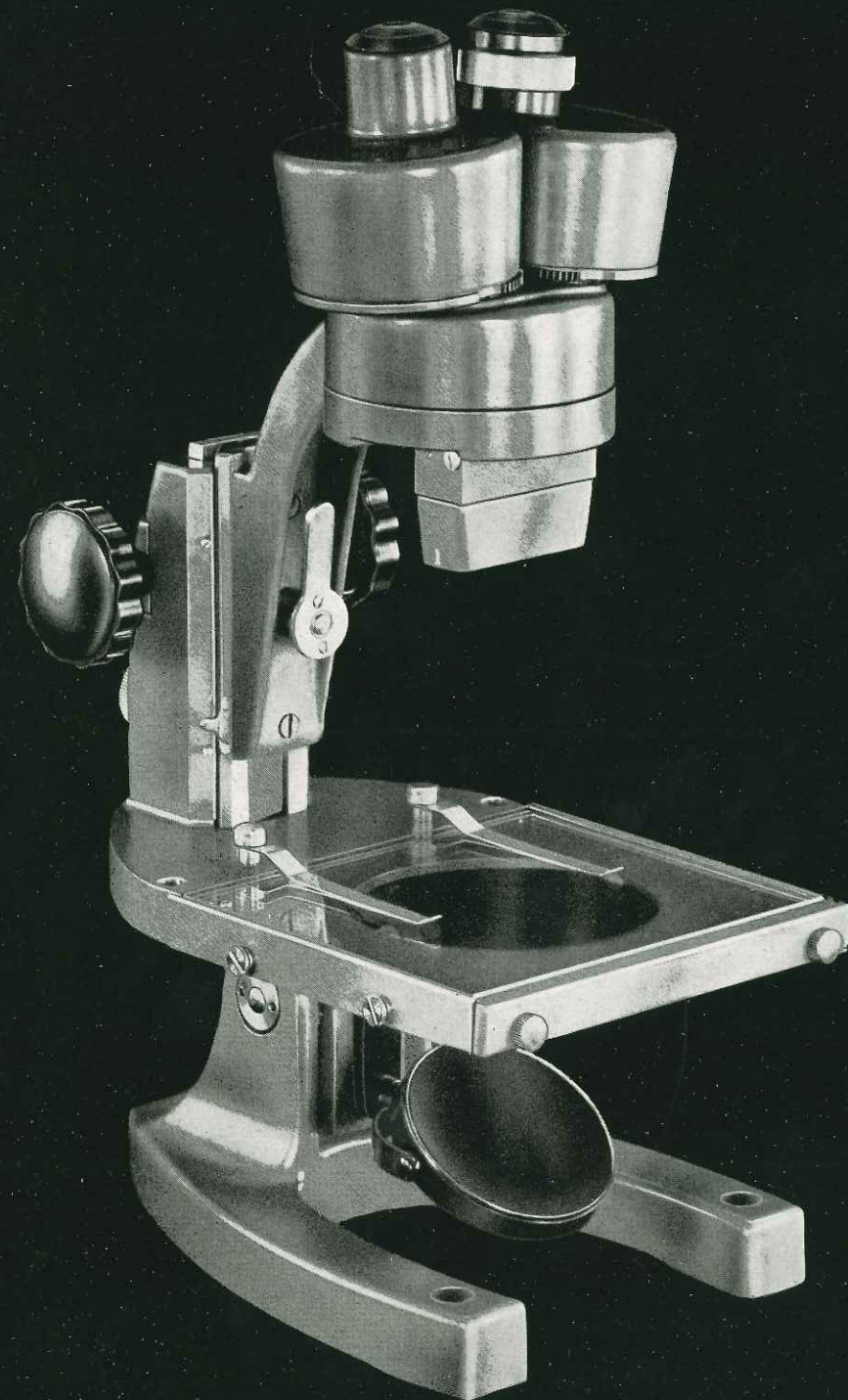


JK-2



JUNIOR STEREOSCOPIC

BK-1



WIDE FIELD MICROSCOPES

• These three vertical eyepiece models feature dustproof, geared prism housings, and nosepiece with interchangeable objectives. All have the extra wide rack and double dovetail extension slide.

Model BK-1 has a single set of interchangeable paired objectives and like the two objective BK-2, has a glass stage with front metal protection plate. Both have the latest design V-U base detachable by the turn of a knob. The concave mirror and diffusing disc are adjustable in three planes. Hand rests regularly supplied are not here shown, but are illustrated on page 19.

SAK-2 is mounted on a heavy cast iron base with vertical post. Universal joints and clamps on the arm permit vertical adjustment and revolution about both vertical and horizontal axes.

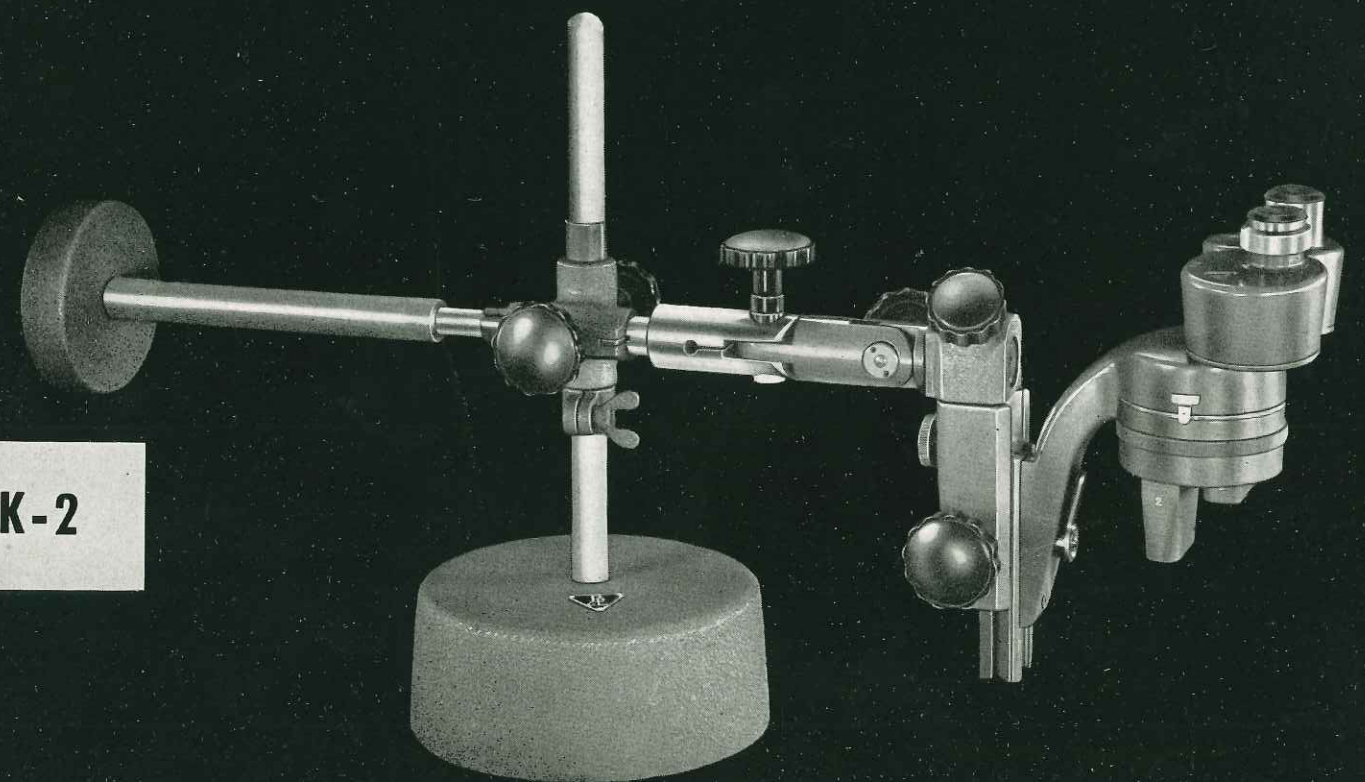
The counterbalance is on a sleeve for quick, convenient change of horizontal radius. Knobs are extra large, requiring little effort in effecting adjustments.

For specifications please turn to page 16.

BK-2



SAK-2





SENIOR STEREOSCOPIC

WIDE FIELD MICROSCOPES

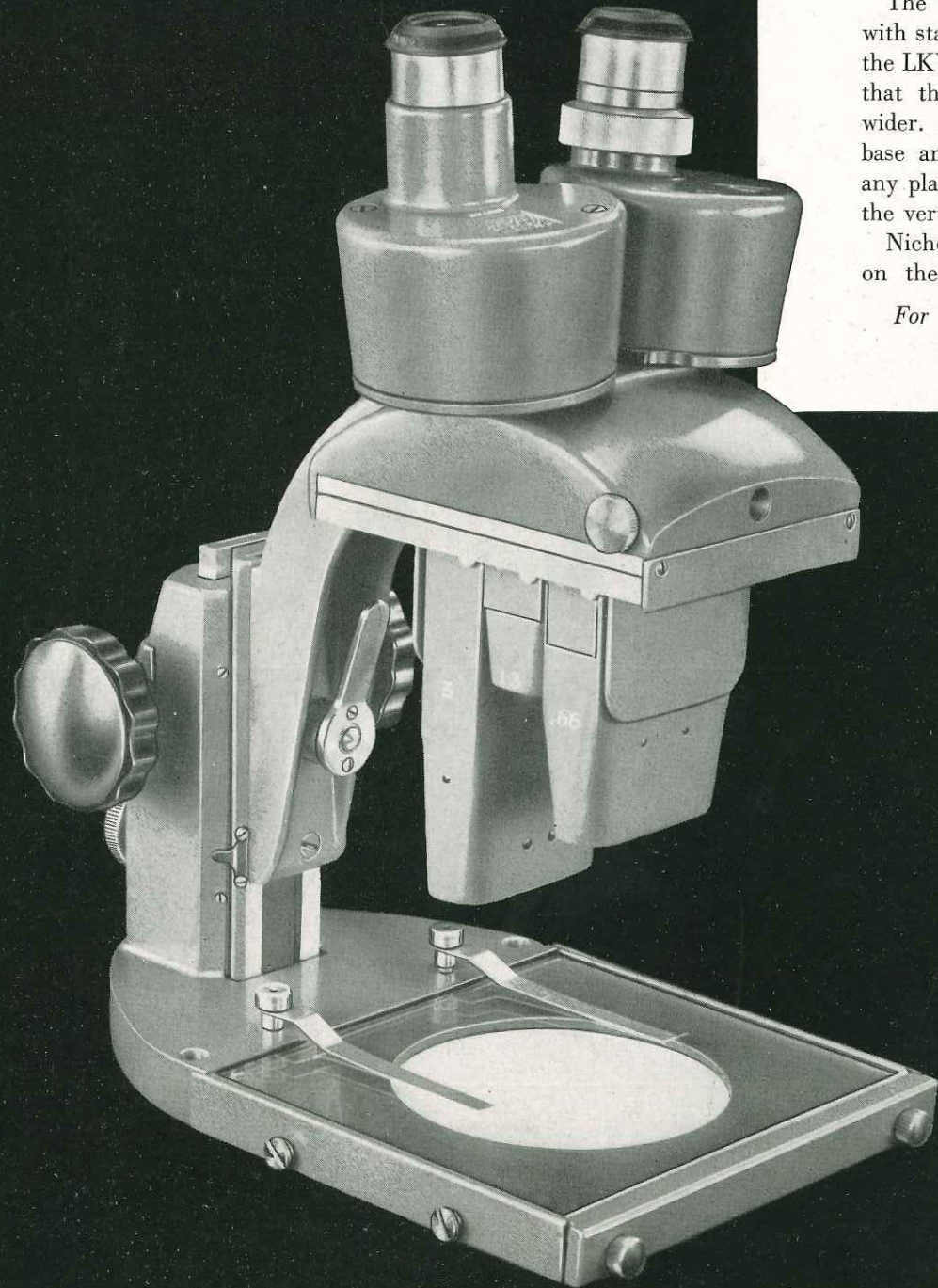
• Vertical eyepieces, dustproof prism housings and sliding nosepiece with 3 sets of paired objectives, double dovetail extension slide and extra wide rack feature these models.

The BKW-5 is the AKW-5 with standard V-U base, while the LKW-5 is the same except that the stage and base are wider. SKW-5 has cast iron base and can be adjusted in any plane and revolved about the vertical.

Nicholas Illuminator shown on the BKW-5 is optional.

For specifications please turn to page 16.

AKW-5



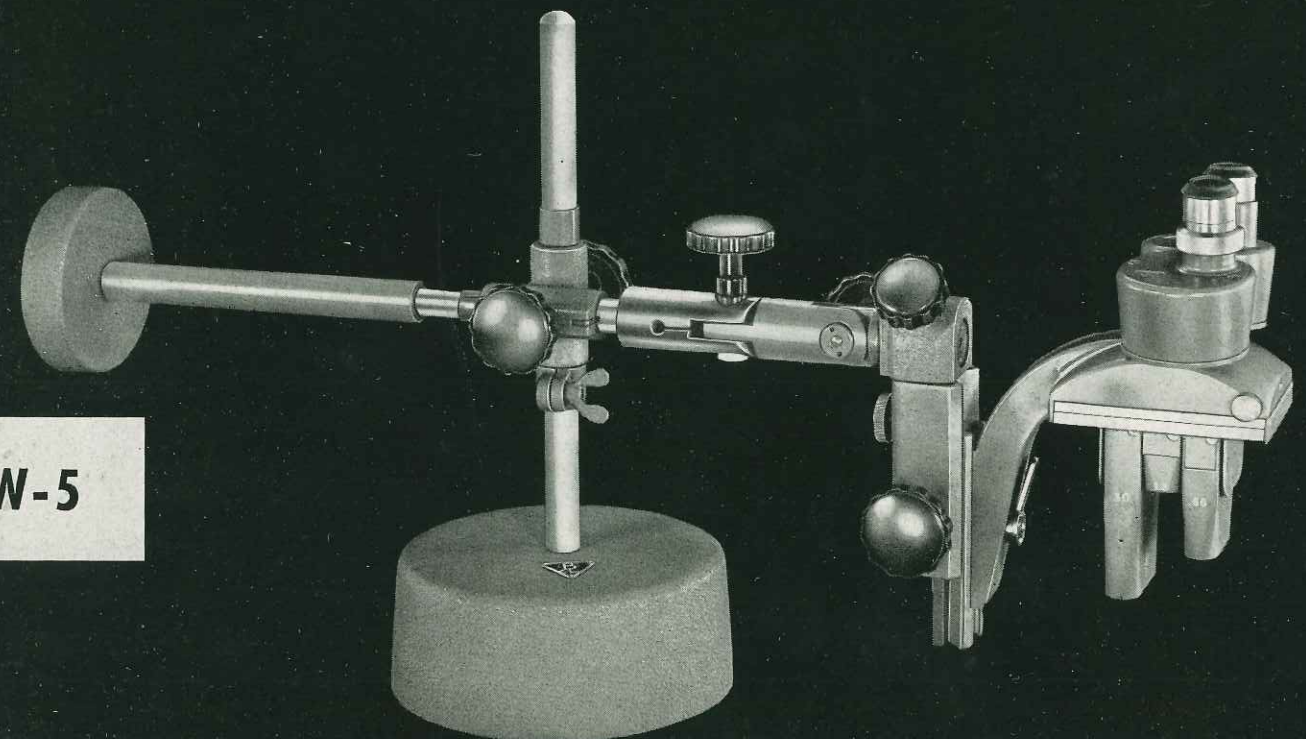
BKW-5



LKW-5

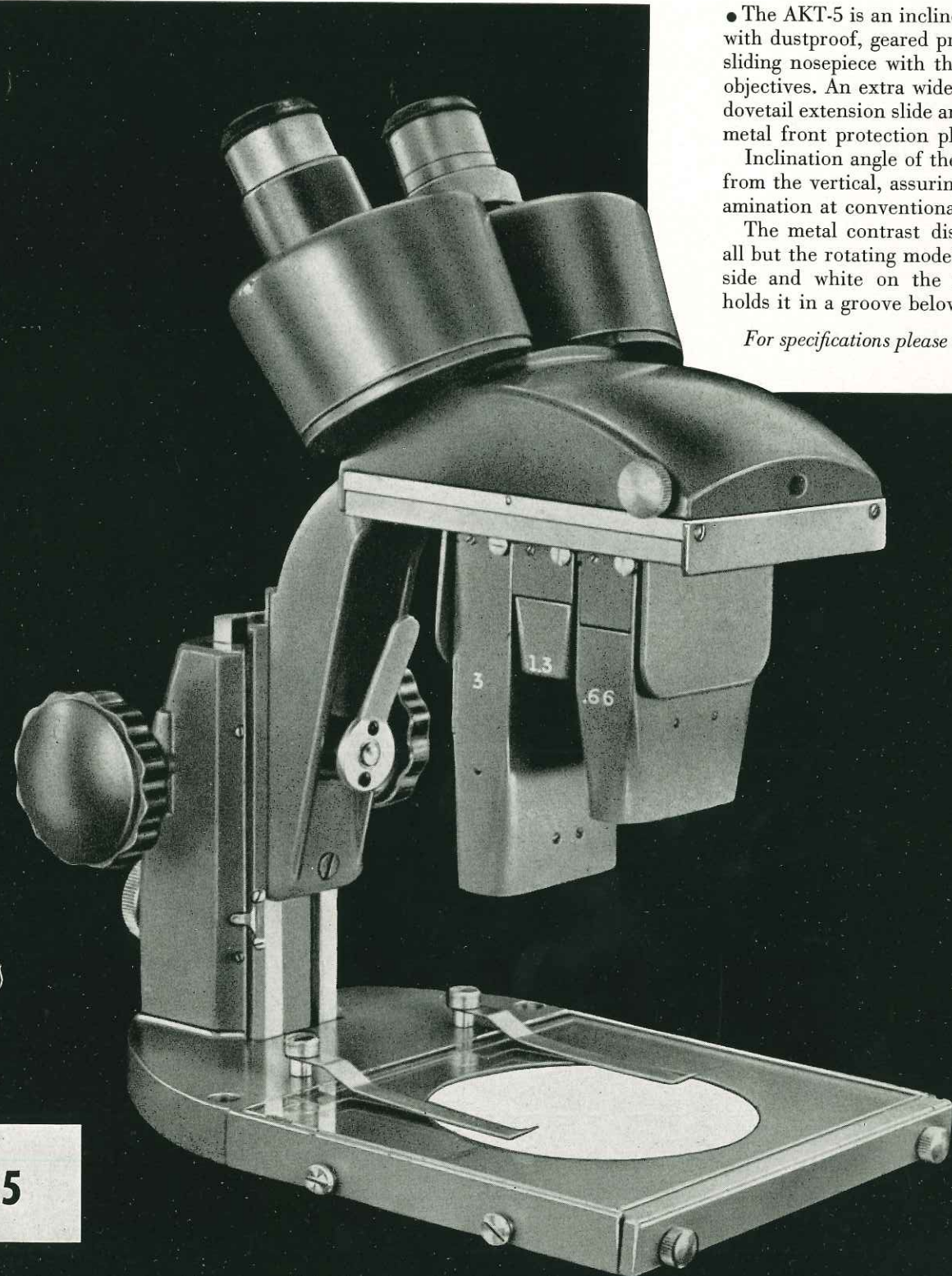


SKW-5





SENIOR STEREOSCOPIC



AKT-5

• The AKT-5 is an inclined eyepiece model with dustproof, geared prism housings and sliding nosepiece with three sets of paired objectives. An extra wide rack with double dovetail extension slide and glass stage with metal front protection plate are featured.

Inclination angle of the eyepieces is 30° from the vertical, assuring comfortable examination at conventional height tables.

The metal contrast disc furnished with all but the rotating models is black on one side and white on the reverse. A spring holds it in a groove below the stage.

For specifications please turn to page 17.

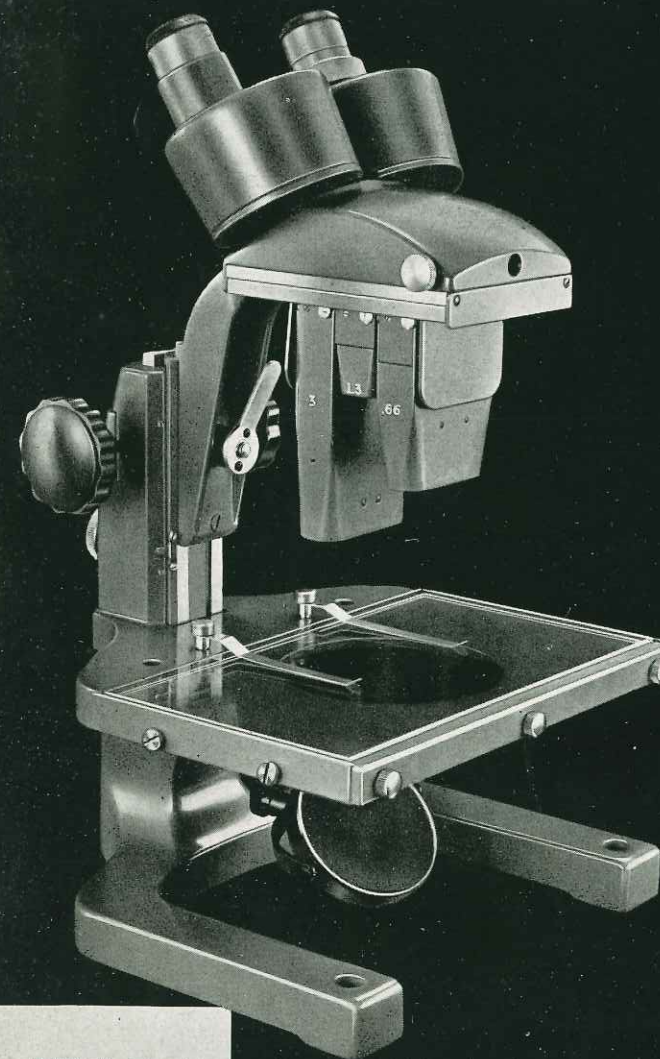
WIDE FIELD MICROSCOPES

• Inclined eyepiece models, these three types have the same general features of excellence possessed by the others of the Senior Series.

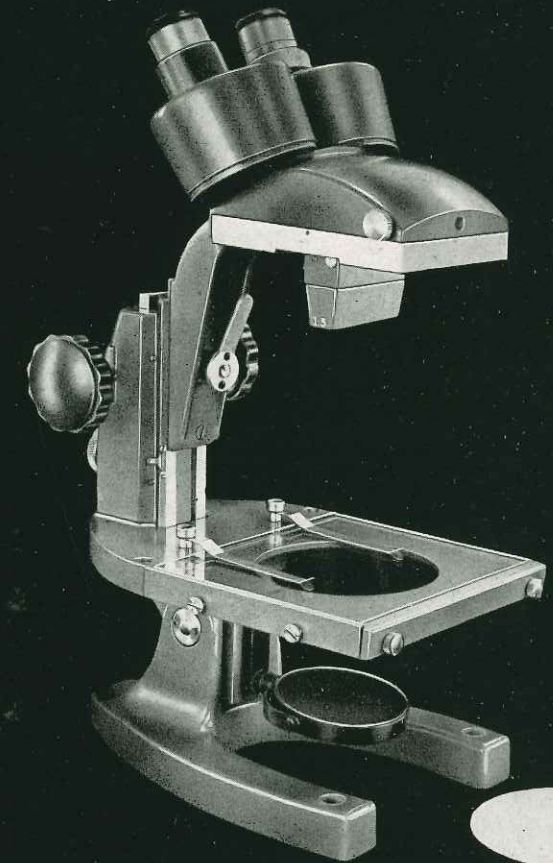
The BKT-5 is the same as the AKT-5 except for the addition of the standard, detachable V-U base, while the LKT-5 is supplied with wider base and stage.

Model BKT-1 has one set of paired objectives on a single, horizontal, dustproof nosepiece. Fluorescent illuminator shown with the BKT-5 is optional. Hand rests are supplied with these models.

For specifications please turn to page 17.



LKT-5



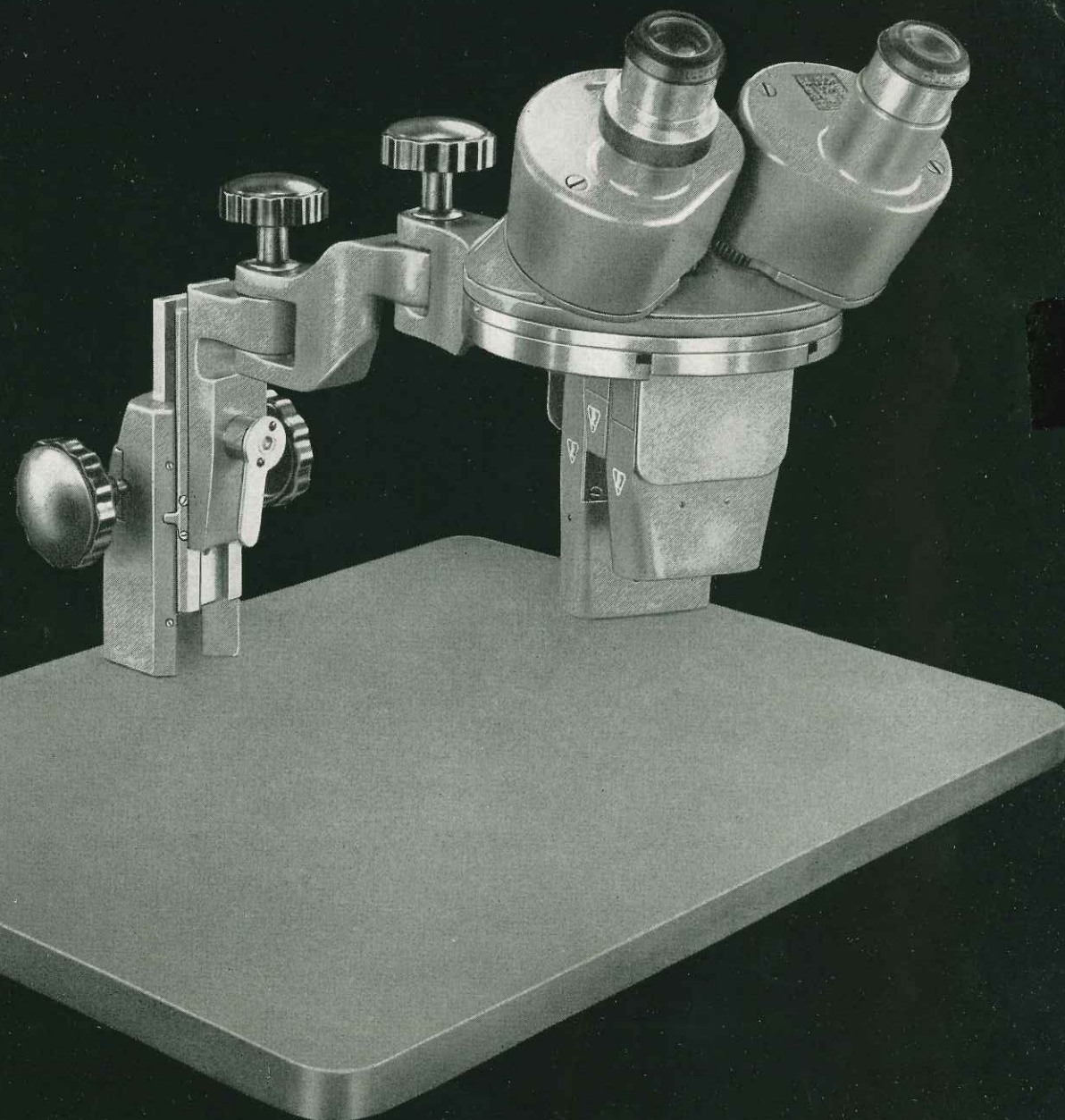
BKT-1



BKT-5



SENIOR STEREOSCOPIC



RKT-5

BAUSCH & LOMB

Stereoscopic

Wide Field Microscopes

PRICE LIST

MARCH 1, 1949



SPECIFICATIONS — BAUSCH & LOMB

JUNIOR STEREOSCOPIC WIDE FIELD MICROSCOPES



JK-1

Junior Wide Field Stereoscopic Microscope for examination of opaque subjects. Vertical eyepieces with adjustments for interpupillary distance and balancing acuity of observer's eyes; binocular, dustproof prism body, and arm attachable to dovetail slide in any one of three positions; focusable by extra wide rack and pinion; large focusing knobs; stage clips; metal contrast disc, black on one side and white on the reverse, insertable in metal stage; wood case with lock and key; and the following optical equipment:

MODEL JK-1, CATALOG NO. 31-26-11-11..... \$189.00

1 set, 10 $\times$, paired Huygenian eyepieces; 1 set, 1.0 $\times$, paired objectives in single, dustproof nosepiece (total magnification, 10 diameters).



JK-2

MODEL JK-2, CATALOG NO. 31-26-10-21..... \$236.00

1 set, 10 $\times$, paired Huygenian eyepieces; 2 sets, 1.0 $\times$ and 2.0 $\times$, paired objectives in dustproof, revolving nosepiece (total magnification, 10 and 20 diameters).

JUNIOR STEREOSCOPIC WIDE FIELD MICROSCOPES



BK-1

Junior Stereoscopic Wide Field Microscope for examination of opaque subjects and transparent subjects. Vertical eyepieces with adjustments for interpupillary distance and balancing acuity of observer's eyes; binocular, dustproof prism body, and arm on double dovetail extensible slide; focusable by extra wide rack and pinion; large focusing knobs; stage clips and glass stage with front protection plate and insertable contrast disc; hand rests; concave mirror and diffusing disc adjustable in three planes; wood case with lock and key; and the following optical equipment:

MODEL BK-1, CATALOG NO. 31-26-15-11..... \$243.00

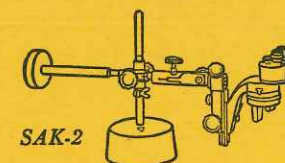
On standard V-U type detachable base; 1 set, 10 $\times$, paired Huygenian eyepieces; 1 set, 1.0 $\times$, paired objectives in single nosepiece (total magnification, 10 diameters).



BK-2

MODEL BK-2, CATALOG NO. 31-26-14-21..... \$290.00

Same as BK-1, except with 2 sets, 1.0 $\times$ and 2.0 $\times$, paired objectives in revolving, dustproof double nosepiece (total magnification, 10 and 20 diameters).



SAK-2

MODEL SAK-2, CATALOG NO. 31-26-47-21..... \$296.00

Same optical system as BK-2. Binocular body and double dovetail extensible slide on counterbalanced horizontal arm with adjustments for examination of specimen in any plane; clamps for adjustment on vertical post; cast iron base; no case.

SENIOR STEREOSCOPIC WIDE FIELD MICROSCOPES



AKW-5

Senior Stereoscopic Wide Field Microscope for examination of opaque subjects. Vertical eyepieces with adjustment for interpupillary distance and balancing acuity of observer's eyes; binocular, dustproof prism body, focusable by extra wide rack and pinion, on double dovetail extensible slide; large focusing knobs; stage clips and removable glass stage with front protection plate, and insertable, metal contrast disc, black on one side and white on the reverse; wood case with lock and key; and the following optical equipment:

MODEL AKW-5, CATALOG NO. 31-26-22-36..... \$350.00

Two sets, 10 $\times$ and 15 $\times$, paired wide field eyepieces; three sets, 0.66 $\times$, 1.33 $\times$, and 3.0 $\times$, paired objectives in dustproof sliding nosepiece (total magnification, 6.6 to 45 diameters).



BKW-5

MODEL BKW-5, CATALOG NO. 31-26-24-36..... \$380.00

Same as AKW-5, but for both opaque and transparent subjects, on standard detachable V-U base with concave mirror and diffusing disc adjustable in three planes; with hand rests.

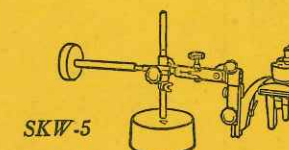
STEREOSCOPIC WIDE FIELD MICROSCOPES



LKW-5

MODEL LKW-5, CATALOG NO. 31-26-23-36..... \$387.00

Same as BKW-5, but with larger glass stage and wider, detachable U-shaped base.



SKW-5

MODEL SKW-5, CATALOG NO. 31-26-48-36..... \$386.00

Same optical system as AKW-5. Binocular body and double dovetail extensible slide on counterbalanced horizontal arm, with adjustments for examination of specimen in any plane; clamps for adjustment on vertical post; cast iron base; no case.

SENIOR STEREOSCOPIC WIDE FIELD MICROSCOPES



AKT-5

Senior Stereoscopic Wide Field Microscope for examination of opaque subjects. Inclined eyepieces with adjustment for interpupillary distance and balancing acuity of observer's eyes; binocular, dustproof prism body focusable by extra wide rack and pinion, on double dovetail extensible slide; large focusing knobs; stage clips and removable glass stage with front protection plate and insertable, metal contrast disc, black on one side and white on the reverse; wood case with lock and key; and the following optical equipment:

MODEL AKT-5, CATALOG NO. 31-26-32-36..... \$382.00

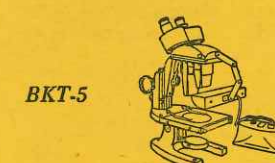
Two sets, 10 $\times$ and 15 $\times$, paired wide field eyepieces; three sets, 0.66 $\times$, 1.33 $\times$, and 3.0 $\times$, paired objectives in dustproof sliding nosepiece; (total magnification, 6.6 to 45 diameters).



BKT-1

MODEL BKT-1, CATALOG NO. 31-26-35-15..... \$298.00

For opaque and transparent subjects; one set, 10 $\times$, paired wide field eyepieces, and one set, 1.33 $\times$, paired objectives in dustproof, single objective adapter; with standard, detachable, V-U base, concave mirror and diffusing disc adjustable in three planes; with hand rests (total magnification, 13.3 diameters).



BKT-5

MODEL BKT-5, CATALOG NO. 31-26-34-36..... \$412.00

Same as AKT-5, but for both opaque and transparent subjects, on standard, detachable V-U base, concave mirror and diffusing disc adjustable in three planes, with hand rests.

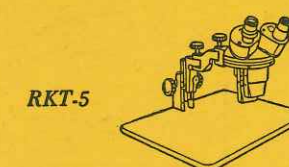


LKT-5

MODEL LKT-5, CATALOG NO. 31-26-38-36..... \$419.00

Same as BKT-5, but with larger glass stage and wider detachable U-shaped base.

SENIOR STEREOSCOPIC WIDE FIELD MICROSCOPES

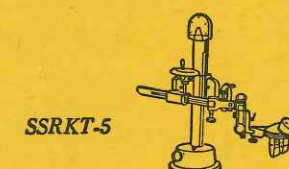


RKT-5

Senior Stereoscopic Wide Field Microscope for examination of opaque subjects, inclined eyepieces with adjustment for interpupillary distance and balancing acuity of observer's eyes; binocular, dustproof prism body rotatable through 360° on objective axis; focusable by extra wide rack and pinion, on double dovetail extensible slide; large focusing knobs; two sets, 10 $\times$ and 15 $\times$, paired wide field eyepieces; three sets, 0.66 $\times$, 1.33 $\times$ and 3.0 $\times$, paired objectives in dustproof sliding nosepiece, (total magnification, 6.6 to 45 diameters), and the following optical equipment:

MODEL RKT-5, CATALOG NO. 31-26-43-36..... \$435.00

With dual jointed arm, and 12" x 16" composition baseboard.



SSRKT-5

MODEL SSRKT-5, CATALOG NO. 31-26-49-36..... \$600.00

With horizontal arm, laterally and vertically adjustable by hand wheel actuated racks and pinions.

ACCESSORIES

PAIRED OBJECTIVES			PAIRED EYEPIECES			
Mag.	Catalog No.	Price	Mag.	Type	Catalog No.	Price
0.66×	31-12-06	\$31.00	10×	Huygenian	31-15-09-02	\$12.00
1.0×	31-12-10	31.00	10×	Wide Field	31-15-51-02	25.00
1.33×	31-12-11	31.00	15×	Wide Field	31-15-52-02	25.00
2.0×	31-12-12	31.00	20×	Wide Field	31-15-53-02	25.00
3.0×	31-12-13	31.00	CASES			
4.0×	31-12-14	33.00				
6.0×	31-12-16	36.00	For Model		Catalog No.	Price
7.5×	31-12-17	36.00	JK.....		31-39-86	\$13.00
These objectives are parfocal and can be interchanged from one stand to another with no loss in quality of performance.			AKW, AKT.....		31-39-87	13.00
			BK, BKW, BKT.....		31-39-88	15.00
			LKW, LKT.....		31-39-89	17.00
			Wide Field microscopes are listed with cases. When no case is desired deduct its cost.			
ILLUMINATORS AND ACCESSORIES						
Description					Catalog No.	Price
Nicholas Illuminator with 6.5-v., 25.5 c.p. lamp for 115-v. A.C., focusable condenser and blue glass filter. On hinged arm, pedestal base, without transformer.....					31-33-51-01	\$36.00
Same as above, but without base.....					31-33-52-01	33.00
Reflector Illuminator, without transformer.....					31-33-11-01	21.00
Transformer, adjustable, for 115-v. A.C.....					31-36-45	15.00
Transformer, fixed, for 115-v. A.C.....					31-36-47	10.00
Resistance for 115-v. A.C.—D.C.....					31-36-44	12.00
Fluorescent Illuminator with 6" lamp for 115-v. A.C., with reflector and adjustable hinged arm and base.....					31-33-54-01	33.00
Lamp for Fluorescent Illuminator, 6", 115-v, 4-watt.....					31-31-03	MCP .75 Tax .0780
Lamp for Nicholas Illuminator, 6.5-v, 25.5 c. p.....					31-31-79	MCP .75 Tax .0489
Lamp for Reflector Illuminator, 6.5-v, frosted.....					31-31-16	MCP .75 Tax .0489
Attachable Mechanical Stage, ungraduated, in case.....					31-59-64	75.00

Prices are subject to change without notice. Orders are subject to acceptance at Rochester, N. Y., U. S. A., at prices prevailing at time of shipment. Orders for standard items may be cancelled if not wanted because of price advance. Excise taxes or other governmental charges will be added wherever applicable. Shipments to points outside Continental United States of America and to its territories, dependencies and possessions, except Hawaii and Alaska, are not subject to excise taxes. Delivery dates are estimated and cannot be guaranteed.

BAUSCH & LOMB OPTICAL CO.

ROCHESTER 2, NEW YORK, U. S. A.

MAGNIFICATIONS AND REAL FIELDS

Objective Magnification and Working Distance	PAIRED EYEPIECES			
	Wide Field			Huygenian
	10×	15×	20×	10×
0.66×	6.6×	10.0×	13.2×	6.6×
62.0mm	30.0mm	26.2mm	18.5mm	22.0mm
1.0×	10.0×	15.0×	20.0×	10.0×
95.9mm	20.0mm	17.3mm	12.2mm	14.5mm
1.33×	13.3×	20.0×	26.6×	13.3×
95.9mm	15.4mm	13.3mm	9.4mm	10.9mm
2.0×	20.0×	30.0×	40.0×	20.0×
63.6mm	10.0mm	8.7mm	6.1mm	7.25mm
3.0×	30.0×	45.0×	60.0×	30.0×
51.7mm	6.7mm	5.8mm	4.1mm	4.83mm
4.0×	40.0×	60.0×	80.0×	40.0×
39.0mm	5.0mm	4.3mm	3.1mm	3.63mm
6.0×	60.0×	90.0×	120.0×	60.0×
23.9mm	3.3mm	2.9mm	2.0mm	2.42mm
7.5×	75.0×	112.0×	150.0×	75.0×
19.2mm	2.7mm	2.3mm	1.6mm	1.93mm

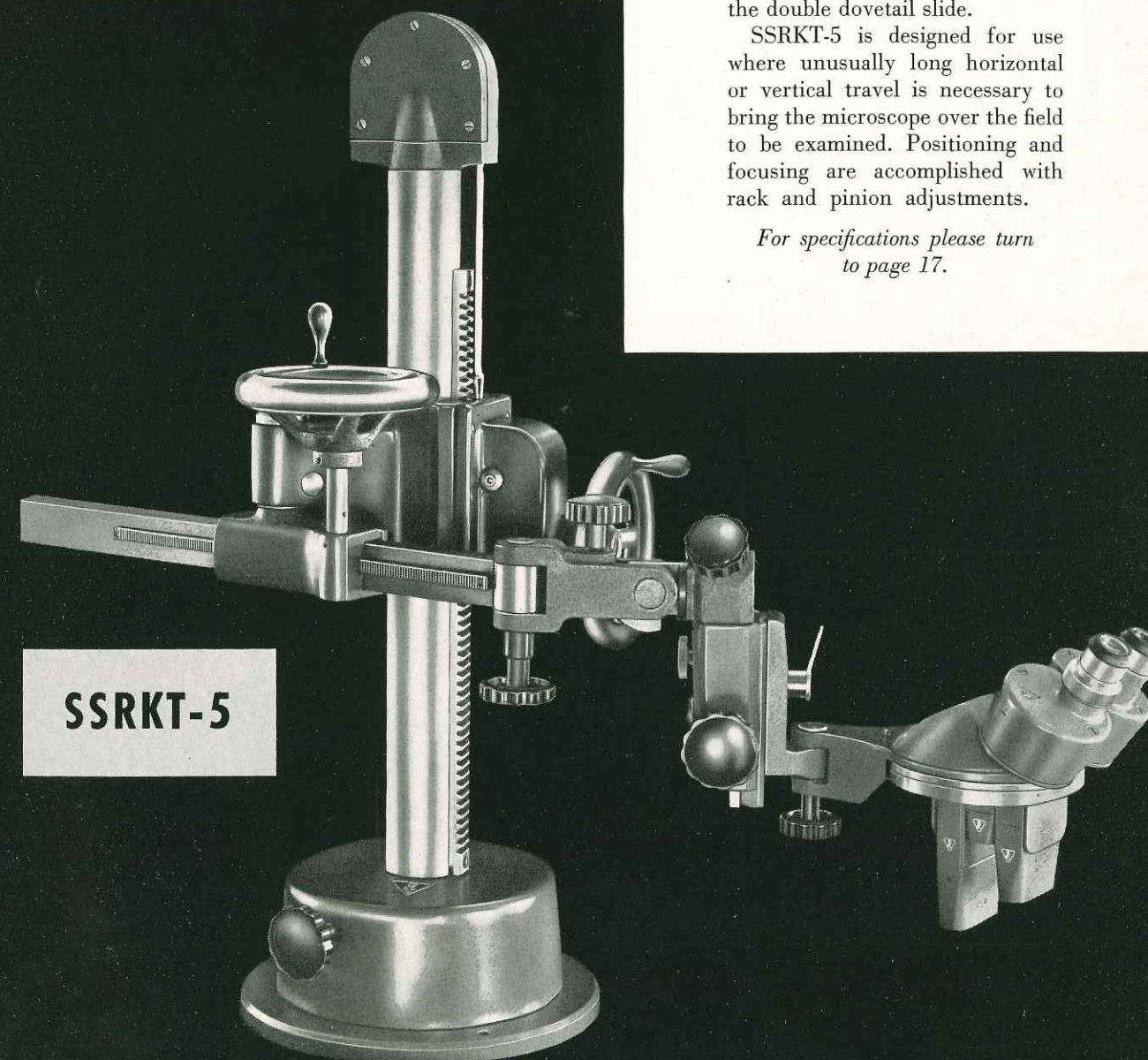
WIDE FIELD MICROSCOPES

• These two models feature a sliding nosepiece which revolves 360° around the center of the field of view regardless of which objective is in use.

Model RKT-5 with dual jointed arm is focused by extra wide rack and pinion. The arm can be clamped vertically at any point on the double dovetail slide.

SSRKT-5 is designed for use where unusually long horizontal or vertical travel is necessary to bring the microscope over the field to be examined. Positioning and focusing are accomplished with rack and pinion adjustments.

For specifications please turn to page 17.

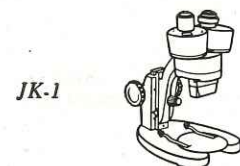


SSRKT-5



SPECIFICATIONS — BAUSCH & LOMB

JUNIOR STEREOSCOPIC WIDE FIELD MICROSCOPES

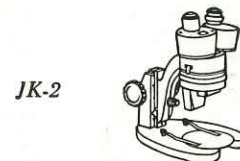


JK-1

Junior Wide Field Stereoscopic Microscope for examination of opaque subjects. Vertical eyepieces with adjustments for interpupillary distance and balancing acuity of observer's eyes; binocular, dustproof prism body, and arm attachable to dovetail slide in any one of three positions; focusable by extra wide rack and pinion; large focusing knobs; stage clips; metal contrast disc, black on one side and white on the reverse, insertable in metal stage; wood case with lock and key; and the following optical equipment:

MODEL JK-1, CATALOG NO. 31-26-11-11

1 set, 10 $\times$, paired Huygenian eyepieces; 1 set, 1.0 $\times$, paired objectives in single, dustproof nosepiece (total magnification, 10 diameters).



JK-2

MODEL JK-2, CATALOG NO. 31-26-10-21

1 set, 10 $\times$, paired Huygenian eyepieces; 2 sets, 1.0 $\times$ and 2.0 $\times$, paired objectives in dustproof, revolving nosepiece (total magnification, 10 and 20 diameters).

JUNIOR STEREOSCOPIC WIDE FIELD MICROSCOPES



BK-1

Junior Stereoscopic Wide Field Microscope for examination of opaque subjects and transparent subjects. Vertical eyepieces with adjustments for interpupillary distance and balancing acuity of observer's eyes; binocular, dustproof prism body, and arm on double dovetail extensible slide; focusable by extra wide rack and pinion; large focusing knobs; stage clips and glass stage with front protection plate and insertable contrast disc; hand rests; concave mirror and diffusing disc adjustable in three planes; wood case with lock and key; and the following optical equipment:

MODEL BK-1, CATALOG NO. 31-26-15-11

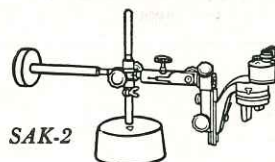
On standard V-U type detachable base; 1 set, 10 $\times$, paired Huygenian eyepieces; 1 set, 1.0 $\times$, paired objectives in single nosepiece (total magnification, 10 diameters).



BK-2

MODEL BK-2, CATALOG NO. 31-26-14-21

Same as BK-1, except with 2 sets, 1.0 $\times$ and 2.0 $\times$, paired objectives in revolving, dustproof double nosepiece (total magnification, 10 and 20 diameters).

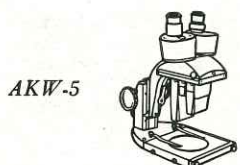


SAK-2

MODEL SAK-2, CATALOG NO. 31-26-47-21

Same optical system as BK-2. Binocular body and double dovetail extensible slide on counterbalanced horizontal arm with adjustments for examination of specimen in any plane; clamps for adjustment on vertical post; cast iron base; no case.

SENIOR STEREOSCOPIC WIDE FIELD MICROSCOPES

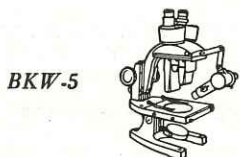


AKW-5

Senior Stereoscopic Wide Field Microscope for examination of opaque subjects. Vertical eyepieces with adjustment for interpupillary distance and balancing acuity of observer's eyes; binocular, dustproof prism body, focusable by extra wide rack and pinion, on double dovetail extensible slide; large focusing knobs; stage clips and removable glass stage with front protection plate, and insertable, metal contrast disc, black on one side and white on the reverse; wood case with lock and key; and the following optical equipment:

MODEL AKW-5, CATALOG NO. 31-26-22-36

Two sets, 10 $\times$ and 15 $\times$, paired wide field eyepieces; three sets, 0.66 $\times$, 1.33 $\times$, and 3.0 $\times$, paired objectives in dustproof sliding nosepiece (total magnification, 6.6 to 45 diameters).



BKW-5

MODEL BKW-5, CATALOG NO. 31-26-24-36

Same as AKW-5, but for both opaque and transparent subjects, on standard detachable V-U base with concave mirror and diffusing disc adjustable in three planes; with hand rests.

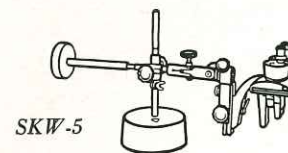
STEREOSCOPIC WIDE FIELD MICROSCOPES



LKW-5

MODEL LKW-5, CATALOG NO. 31-26-28-36

Same as BKW-5, but with larger glass stage and wider, detachable U-shaped base.



SKW-5

MODEL SKW-5, CATALOG NO. 31-26-48-36

Same optical system as AKW-5. Binocular body and double dovetail extensible slide on counterbalanced horizontal arm, with adjustments for examination of specimen in any plane; clamps for adjustment on vertical post; cast iron base; no case.

SENIOR STEREOSCOPIC WIDE FIELD MICROSCOPES

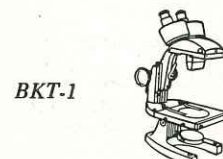


AKT-5

Senior Stereoscopic Wide Field Microscope for examination of opaque subjects. Inclined eyepieces with adjustment for interpupillary distance and balancing acuity of observer's eyes; binocular, dustproof prism body focusable by extra wide rack and pinion, on double dovetail extensible slide; large focusing knobs; stage clips and removable glass stage with front protection plate and insertable, metal contrast disc, black on one side and white on the reverse; wood case with lock and key; and the following optical equipment:

MODEL AKT-5, CATALOG NO. 31-26-32-36

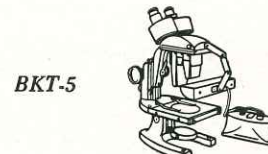
Two sets, 10 $\times$ and 15 $\times$, paired wide field eyepieces; three sets, 0.66 $\times$, 1.33 $\times$, and 3.0 $\times$, paired objectives in dustproof sliding nosepiece; (total magnification, 6.6 to 45 diameters).



BKT-1

MODEL BKT-1, CATALOG NO. 31-26-35-15

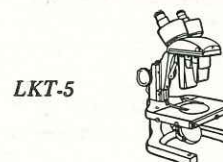
For opaque and transparent subjects; one set, 10 $\times$, paired wide field eyepieces, and one set, 1.33 $\times$, paired objectives in dustproof, single objective adapter; with standard, detachable, V-U base, concave mirror and diffusing disc adjustable in three planes; with hand rests (total magnification, 13.3 diameters).



BKT-5

MODEL BKT-5, CATALOG NO. 31-26-34-36

Same as AKT-5, but for both opaque and transparent subjects, on standard, detachable V-U base, concave mirror and diffusing disc adjustable in three planes, with hand rests.

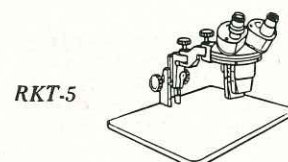


LKT-5

MODEL LKT-5, CATALOG NO. 31-26-38-36

Same as BKT-5, but with larger glass stage and wider detachable U-shaped base.

SENIOR STEREOSCOPIC WIDE FIELD MICROSCOPES

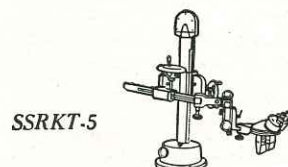


RKT-5

Senior Stereoscopic Wide Field Microscope for examination of opaque subjects, inclined eyepieces with adjustment for interpupillary distance and balancing acuity of observer's eyes; binocular, dustproof prism body rotatable through 360° on objective axis; focusable by extra wide rack and pinion, on double dovetail extensible slide; large focusing knobs; two sets, 10 $\times$ and 15 $\times$, paired wide field eyepieces; three sets, 0.66 $\times$, 1.33 $\times$ and 3.0 $\times$, paired objectives in dustproof sliding nosepiece, (total magnification, 6.6 to 45 diameters), and the following optical equipment:

MODEL RKT-5, CATALOG NO. 31-26-43-36

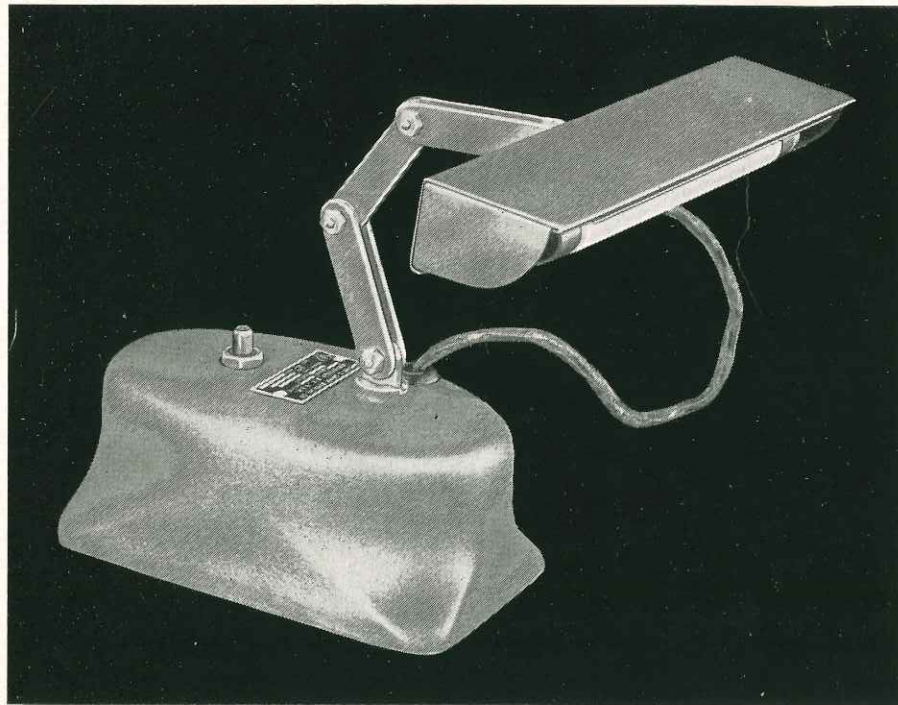
With dual jointed arm, and 12" x 16" composition baseboard.



SSRKT-5

MODEL SSRKT-5, CATALOG NO. 31-26-49-36

With horizontal arm, laterally and vertically adjustable by hand wheel actuated racks and pinions.



Fluorescent Illuminator and Base

ILLUMINATORS

For Stereoscopic Wide Field Microscopes

THREE types of Bausch & Lomb Illuminators are available to provide for every requirement in stereoscopic wide field microscopy.

These illuminators are manufactured by Bausch & Lomb to quality standards. They are recommended as fitting complements to B&L microscopes. Efficient and adequate illumination is just as important in stereoscopic microscopy

as it is with monobjective instruments. In fact, in spite of the comparatively low magnifications used and the lack of a substage condenser, Greenough type microscopes make just as critical demands of illuminators as do those instruments with higher magnifications.

Bausch & Lomb illuminators will prove adequate, versatile, and long lived—capable of rendering the kind of service expected of a B&L instrument.

Reflector

The Reflector Illuminator with elliptical mirror is so designed that it will deliver diverging, parallel or converging light. The jointed arm permits illumination from any angle and either above or below the stage. The lamp focusing adjustment enables the technician to use the illuminator well outside the field of actual operations.



Reflector Illuminator, with rheostat

Fluorescent

The Fluorescent Illuminator furnishes cool light of even intensity and can be used on its base or in one of the holes provided on the Senior type bases, stages and sliding nosepiece.

The light can be adjusted in any direction by means of the strong, jointed arm. In the base are contained the switch and reactor unit.

Nicholas

For parallel light the improved Nicholas Illuminator has a condenser system for controlling the beam. The illuminator can be used on its pedestal base or in holes on the microscope the same as the fluorescent type. A blue glass filter is supplied.

The arm is of sufficient strength to provide adequate support for the lamp and condenser assembly, minimizing vibration and consequent inconstant focus.

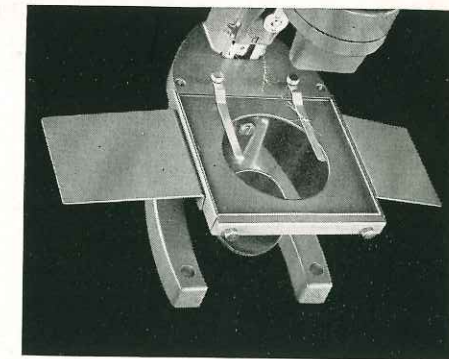
The Nicholas Illuminator and Reflector Illuminator require either a resistance or a transformer. Selection should be made from the specification table on the next page, according to type of current available.

Improved Nicholas Illuminator



MAGNIFICATIONS AND REAL FIELDS

Objective Magnification and Working Distance	PAIRED EYEPIECES			
	Wide Field			Huygenian
	10×	15×	20×	10×
0.66× 62.0mm	6.6× 30.0mm	10.0× 26.2mm	13.2× 18.5mm	6.6× 22.0mm
1.0× 95.9mm	10.0× 20.0mm	15.0× 17.3mm	20.0× 12.2mm	10.0× 14.5mm
1.33× 95.9mm	13.3× 15.4mm	20.0× 13.3mm	26.6× 9.4mm	13.3× 10.9mm
2.0× 63.6mm	20.0× 10.0mm	30.0× 8.7mm	40.0× 6.1mm	20.0× 7.25mm
3.0× 51.7mm	30.0× 6.7mm	45.0× 5.8mm	60.0× 4.1mm	30.0× 4.83mm
4.0× 39.0mm	40.0× 5.0mm	60.0× 4.3mm	80.0× 3.1mm	40.0× 3.63mm
6.0× 23.9mm	60.0× 3.3mm	90.0× 2.9mm	120.0× 2.0mm	60.0× 2.42mm
7.5× 19.2mm	75.0× 2.7mm	112.0× 2.3mm	150.0× 1.6mm	75.0× 1.93mm



HAND RESTS are supplied on all B&L Stereoscopic Wide Field Microscopes equipped with bases and glass stages.

ACCESSORIES

EYEPIECES—Bausch & Lomb recommends for its Stereoscopic Wide Field Microscopes paired eyepieces of either the Huygenian or Wide Field types. The former are standard on the Junior Series while the Senior Models are equipped with the Wide Field form. The latter are achromatic with a large eyelens and high eyepoint.

Both types are interchangeable, however, so that if Wide Fields are wanted on a Junior Model it is merely necessary to order accordingly, adding the price differential.

MICROMETER DISCS—These eyepieces are made for the reception of Micrometer Discs of which Bausch & Lomb supplies several types. Ask for Catalog D-184, available on request.

OBJECTIVES—Great care has been exercised in the design of the recommended Objectives. They are paired in the objective holder and are parfocal. Interchange between microscopes is entirely practical. The four most popular magnifications, 10×, 20×, 30× and 60×, can be obtained with either 10× or 15× eyepieces.

MECHANICAL STAGE—Available at extra cost is an ungraduated attachable mechanical stage. This stage can be attached to any Bausch & Lomb Stereoscopic Wide Field Microscope having base and glass stage, except the large stage models. Attaching is done by two thumb screws and does not require factory fitting. Slides up to 2" x 3" can be accommodated. A wood case is included for storing the stage.

ACCESSORIES

PAIRED OBJECTIVES		PAIRED EYEPIECES		
Mag.	Catalog No.	Mag.	Type	Catalog No.
0.66×	31-12-06	10×	Huygenian	31-15-09-02
1.0×	31-12-10	10×	Wide Field	31-15-51-02
1.33×	31-12-11	15×	Wide Field	31-15-52-02
2.0×	31-12-12	20×	Wide Field	31-15-53-02
3.0×	31-12-13	CASES		
4.0×	31-12-14	For Model		Catalog No.
6.0×	31-12-16	JK.....		31-39-86
7.5×	31-12-17	AKW, AKT.....		31-39-87
These objectives are parfocal and can be interchanged from one stand to another with no loss in quality of performance.		BK, BKW, BKT.....		31-39-88
		LKW, LKT.....		31-39-89
		Wide Field microscopes are listed with cases. When no case is desired deduct its cost.		

ILLUMINATORS AND ACCESSORIES

Description	Catalog No.
Nicholas Illuminator with 6.5-v., 25.5 c.p. lamp for 115-v. A.C., focusable condenser and blue glass filter. On hinged arm, pedestal base, without transformer.....	31-33-51-01
Same as above, but without base.....	31-33-52-01
Reflector Illuminator, without transformer.....	31-33-11-01
Transformer, adjustable, for 115-v. A.C.....	31-36-45
Transformer, fixed, for 115-v. A.C.....	31-36-47
Resistance for 115-v. A.C.—D.C.....	31-36-44
Fluorescent Illuminator with 6" lamp for 115-v. A.C., with reflector and adjustable hinged arm and base.....	31-33-54-01
Lamp for Fluorescent Illuminator, 6", 115-v., 4-watt.....	31-31-03
Lamp for Nicholas Illuminator, 6.5-v., 25.5 c. p.....	31-31-79
Lamp for Reflector Illuminator, 6.5-v., frosted.....	31-31-16
Attachable Mechanical Stage, ungraduated, in case.....	31-59-64

TERMS AND PROCEDURE

CATALOG NUMBERS

When ordering, be sure to give catalog number and name of item.

FINANCIAL STANDING

To avoid delay, a purchaser with whom Bausch & Lomb has not previously transacted business should accompany his first order with commercial references or remittance in cash.

TRANSPORTATION CHARGES

Unless otherwise stated on a B&L quotation, all consumer purchases, except repairs, will be shipped transportation charges prepaid to any point within Continental United States of America. Other-than-consumer purchases, all repairs, and goods for delivery outside the above specified area will be shipped f.o.b. Rochester, N. Y., U. S. A. The shipping charges on products sent on memorandum are not prepaid. There is no charge for packing unless otherwise stated. Products made on special order cannot be forwarded C. O. D.

SHORTAGE OR DAMAGE

To avoid error, Bausch & Lomb exercises the utmost care in checking and packing all shipments. All packing should be carefully examined for small items. If a discrepancy is found, report it to Bausch & Lomb immediately. Report to the transportation company at once any claim for loss, damage or breakage. Carriers are responsible for loss or damage to goods in transit. When shipping container shows damage, do not give a clear receipt, but sign for "in bad order". Save the container and obtain an inspection report from the carrier.

RETURNING GOODS

If it is desired to return goods, first send Bausch & Lomb full information by letter. Goods should not be returned for any reason until approval for their return has been received from Bausch & Lomb. Each item should be plainly tagged with sender's name and address. Identification tags will be sent on request.

ELECTRICAL EQUIPMENTS

Electrical equipments for use on voltages other than those listed are available on special order. Send complete specifications for quotations.

INQUIRIES

When writing, please give the date of your order, the Bausch & Lomb order number which appears on the packing slip and, if possible, the Bausch & Lomb invoice number.

PRICES

Prices are subject to change without notice. Orders are subject to acceptance at Rochester, N. Y., U. S. A., at prices prevailing at time of shipment. Orders for standard items may be cancelled if not wanted because of price advance. Excise taxes or other governmental charges will be added wherever applicable. Shipments to points outside Continental United States of America and to its territories, dependencies and possessions, except Hawaii and Alaska, are not subject to excise taxes. Delivery dates are estimated and cannot be guaranteed.

DESIGN CHANGES

Bausch & Lomb reserves the right to make changes in instrument design in accordance with scientific progress, and to supply apparatus resultingly different from that described or illustrated in its literature.



BAUSCH & LOMB OPTICAL CO.

Rochester 2, New York, U. S. A.

Bausch & Lomb products can be obtained from the following offices as well as from distributors and dealers in the United States and in other principal countries throughout the world:

Branch Offices and Subsidiaries

NEW YORK, NEW YORK	Bausch & Lomb Optical Co., RCA Building, 30 Rockefeller Plaza
CHICAGO, ILLINOIS	Bausch & Lomb Optical Co., 5 North Wabash Avenue
SAN FRANCISCO, CALIFORNIA	Bausch & Lomb Optical Co., Flood Bldg.
TORONTO, ONTARIO, CANADA	Bausch & Lomb Optical Co., Ltd., 388 Yonge Street
MONTREAL, QUEBEC, CANADA	Bausch & Lomb Optical Co., Ltd., 1449 St. Alexander Street
LONDON, ENGLAND	Bausch & Lomb Optical Co., Ltd., Africa House, Kingsway, W. C. 2
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São Paulo, Brasil	Bausch & Lomb do Brasil Ltd., Rua Libero Badaro, 158-8°
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STOCKHOLM, SWEDEN	Aga-Bausch & Lomb, A. B., Malmkillnadsgatan 39

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